## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

## Listing of Claims:

- 1. (Currently Amended) A diffractive optical element comprising:
  - a first diffractive element,
- a second diffractive element that is made of a material different from the first diffractive element and is cemented with the first diffractive element, and
- a diffraction grating formed on the <u>at</u> cemented surfaces of the first and second diffractive elements,

wherein a shade is formed on a wall surface in each groove of the diffraction grating.

- 2. (Currently Amended) The diffractive optical element according to claim 1, wherein the a material of one of these two the first diffractive elements element is a glass for glass molding, and that a material of the other second diffractive element is resin.
- 3. (Currently Amended) The diffractive optical element according to claim 2, wherein one of these two the first

diffractive <u>elements</u> element satisfies the following two conditional equations:

$$1.55 \le ndG \le 1.70$$

$$50 \le \nu dG \le 65$$

where ndG denotes <u>a</u> refractive index of <del>one of these two the first</del> diffractive <del>elements element</del> at d-line, and  $\nu$  dG denotes <u>an Abbe number of <del>one of these two the first the first of the first the first of the first </u></del>

wherein the other of these two second diffractive elements element satisfies the following two conditional equations:

$$1.50 \le ndR \le 1.65$$

$$\nu dR \leq 45$$

where ndR denotes <u>a</u> refractive index of the other of these two second diffractive elements element at d-line, and  $\nu$  dR denotes <u>an</u> Abbe number of the other of these two second diffractive elements element at d-line.

4. (Currently Amended) The diffractive optical element according to claim 3, wherein the minimum pitch of the diffraction grating grooves is 50  $\mu$ m or more.

- 5. (Currently Amended) The diffractive optical element according to claim 4, wherein the wall height of the diffraction grating grooves is 20  $\mu \rm m$  or less.
- 6. (Currently Amended) The diffractive optical element according to claim 3, wherein the wall height of the diffraction grating grooves is 20  $\mu \rm m$  or less.
- 7. (Currently Amended) The diffractive optical element according to claim 2, wherein the minimum pitch of the diffraction grating grooves is 50  $\mu \rm m$  or more.
- 8. (Currently Amended) The diffractive optical element according to claim 7, wherein the wall height of the diffraction grating grooves is 20  $\mu \rm m$  or less.
- 9. (Currently Amended) The diffractive optical element according to claim 2, wherein the wall height of the diffraction grating grooves is 20  $\mu \, \mathrm{m}$  or less.
- 10. (Currently Amended) The diffractive optical element according to claim 1, wherein one of these two the first diffractive elements element satisfies the following two conditional equations:

 $1.55 \le \text{ndG} \le 1.70$ 

 $50 \le \nu dG \le 65$ 

where ndG denotes a refractive index of one of these two the first diffractive elements element at d-line, and  $\nu$  dG denotes an Abbe number of one of these two the first diffractive element at d-line; and

wherein the other of these two second diffractive elements element satisfies the following two conditional equations:

 $1.50 \le ndR \le 1.65$ 

 $\nu dR \leq 45$ 

where ndR denotes <u>a</u> refractive index of the other of these two second diffractive elements element at d-line, and  $\nu$  dR denotes <u>an</u> Abbe number of the other of these two second diffractive element at d-line.

- 11. (Currently Amended) The diffractive optical element according to claim 10, wherein the minimum pitch of the diffraction grating grooves is 50  $\mu$ m or more.
- 12. (Currently Amended) The diffractive optical element according to claim 11, wherein the wall height of the diffraction grating grooves is 20  $\mu \rm m$  or less.

- 13. (Currently Amended) The diffractive optical element according to claim 10, wherein the wall height of the diffraction grating grooves is 20  $\mu \rm m$  or less.
- 14. (Currently Amended) The diffractive optical element according to claim 1, wherein the minimum pitch of the diffraction grating grooves is 50  $\mu m$  or more.
- 15. (Currently Amended) The diffractive optical element according to claim 14, wherein the wall height of the diffraction grating grooves is 20  $\mu \, \mathrm{m}$  or less.
- 16. (Currently Amended) The diffractive optical element according to claim 1, wherein the wall height of the diffraction grating grooves is 20  $\mu \rm m$  or less.

Claims 17-20 (Cancelled)